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AMENDMENT Page 7

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REMARKS

Claims 1 and 26-59 are pending. New claim 59 is supported by previous claims 1, 26, 28, 29, 33, 45, 41 and 47. No new matter has been entered.

Initially, as the Office Action has failed to address the majority of the arguments presented in the Appeal Brief filed August 24, 2005, all of the arguments presented therein are expressly incorporated herein.

I. Scher et al. in view of Schmoock

Claims 1 and 32 stand rejected under 35 USC § 103(a) as allegedly being unpatentable over Scher et al. (U.S. Patent No. 4,092,198) in view of Schmoock (U.S. Patent No. 5,344,692).

A. "a wear layer of UV or electron beam curing lacquer"

The Office Action asserts Scher et al. teaches "a method for the manufacture of a decorative surface element, which element comprises a base layer, a decor layer of a lacquer, and a wear layer," citing the Abstract thereof. However, as presented in the Appeal Brief (and not addressed in the present Office Action), such an assertion is a mischaracterization of claim 1.

Specifically, claim 1 recites "a wear layer of a UV or electron beam curing lacquer."

Thus, as neither this reference, nor any other cited reference teaches to provide a "a wear layer of a UV or electron beam curing lacquer," Applicants respectfully submit that no prima facte case of obviousness has been made.

Applicants note the citation of column 4, lines 11-13 of Schmook for its teaching of including a UV curing laquer. However, as also presented in the Appeal Brief (and not addressed in the present Office Action), this passage teaches "[i]t is possible to employ an inner layer which consists of or contains a lacquer and is hardened as a result of exposure to ultraviolet radiation" (emphasis added).

As presented in the Appeal Brief, unlike the invention recited by independent claim 1, there is no wear layer of a UV or electron beam curing lacquer on top of the leather laminate of Schmoock. Instead, column 4, lines 11-13 relied upon by the Examiner mentions that an inner layer, which consists of or contains a lacquer is hardened as a result of exposure to ultra-violet

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radiation may be used. Thus, it is clear that it is not a top layer (wear-layer) in Schmoock but, rather, Schmoock only concerns a leather product containing a thermoplastic material which has nothing in common with the present decorative surface element with a specific thermosetting wear layer on top, i.e., a UV or electron beam curing lacquer. Applicants respectfully submit that it is improper for the Examiner to disregard the teachings of Schmoock concerning low-grade leather combined with a thermoplastic material and merely pick out two isolated lines in column 4 as being of the same type of surface or product as being produced by Scher et al. In any event, the teachings of Schmoock at column 4, lines 11-13, do not refer to a wear layer (on top), but, rather, an inner layer as mentioned above. Thus, the combination of Scher et al. and Schmoock would still not teach nor make obvious the invention as claimed in independent claim 1. Thus, as this passage, nor any other passage of the cited reference, teaches or suggests to provide a wear layer of UV curing lacquer, Applicants respectfully present that claim 1, and each of the claims depending therefrom are allowable over the cited art.

B. "thereafter completely curing the wear layer"

The Office Action asserts that Scher et al., at column 10, lines 6-18, teaches a step of "thereafter curing the wear layer." Initially, the Office Action has mischaracterized the recited feature, as present claim 1 recites "thereafter completely curing the wear layer." The Office Action has ignored the word "completely."

According to present claim 1, the wear layer includes a UV or electron beam curing lacquer. Therefore, in order to cure the UV or electron beam curing lacquer, it is necessary to apply a UV or electron beam. Claim 1 has been amended to clarify this feature. As Scher et al. does not teach or suggest the inclusion of any UV or electron beam curing material, this reference cannot reasonably teach the application of a UV or electron beam. Similarly, as none of the cited references teach or suggest to provide a UV or electron beam curing material as the wear layer, it cannot be reasonably asserted that such references, either alone or in combination, teach or suggest to cure the wear layer by applying a UV or electron beam.

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II. Scher et al. and Schmoock in view of MacQueen et al.

Claims 26-30, 39, 40, 41, 43, 51 and 52 stand rejected under 35 USC § 103(a) as allegedly being unpatentable over Scher et al. and Schmoock in view of MacQueen et al. (U.S. Patent No. 6,399,670). Initially, as MacQueen et al. fails to cure the deficiencies identified in Section I.A and I.B, above, Applicants respectfully present that this rejection also fails to establish *prima facie* obviousness for claims 26-30, 39, 40, 41, 43, 51 and 52.

A. Claim 26

The Office Action asserts Scher et al. and Schmoock teach each feature of claim 26, except for "using a specific lacquer." However, as MacQueen et al. allegedly "shows a process including a method wherein the lacquer consists of an acrylic lacquer" (citing column 5, lines 29-31 thereof), the Office Action asserts claim 26 is rendered obvious.

Again, it appears the Examiner is mischaracterizing the claims by ignoring words therein. In this instance, claim 26 recites "wherein the lacquer consists of an acrylic or a maleamide lacquer." While Applicants agree that an acrylate may be a polymer formed from acrylic moieties, an acrylic resin (as taught by MacQueen et al.) is not the same as an acrylic lacquer. As commonly understood, a lacquer is "A material which contains a substantial quantity of cellulose derivative, most commonly nitrocellulose, but sometimes a cellulose ester, such as cellulose acetate or cellulose butyrate, or a cellulose ether such as ethyl cellulose" (See the definition of lacquer from McGraw-Hill; Dictionary of Scientific and Technical Terms, provided as an Attachment hereto). Thus, as the resin described at column 5, lines 29-31 of MacQueen et al. is not described as containing any type of cellulose derivative, such resin cannot be a lacquer.

B. Claim 27

The Office Action asserts Scher et al. teaches each feature of claim 27, except for "using partial curing steps." However, MacQueen et al. is relied upon for such a teaching, citing column 12, lines 1-16 and column 23, lines 31-34.

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Yet again, the Examiner is mischaracterizing the claims by ignoring words therein. While claim 27 recites "wherein the wear layer is applied in several steps with intermediate partial curing," the Office Action only comments on the second feature of claim 27. Thus, as the Office Action does not even allege that the cited references teach or suggest applying the wear layer in several steps, no prima facie case of obviousness has been made.

In any event, as claim 27 has been amended to more particularly clarify that there is a curing step, including the application of a UV or electron beam between each applying step. None of the cited references teach or suggest such a feature. Although MacQueen et al. teaches to apply heat to alter viscosity, (1) there is no teaching or suggestion that such application of heat cures; (2) there is no teaching of the application of a UV or electron beam; and (3) there is no teaching of several application steps.

C. Claim 29

The Office Action asserts that MacQueen et al. teaches that a base layer consists of particle board, citing column 9, lines 22-25 thereof. However, neither the cited passage nor any other passage of this reference discloses "a method wherein the base layer consists of a particle board." As none of the cited references teach or suggest to provide a base layer of fiber board, Applicants respectfully present that no prima facie case of obviousness has been made, and claim 29 is, accordingly, allowable. Moreover, the alleged motivation, i.e., "to provide a sturdy core layer for the end product," cannot be found in the cited references. Applicants remind the Examiner "[t]he teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art, not in applicant's disclosure" MPEP § 2142 (citing In re Vaeck, 947 F.2d 488, 20 USPQ2d 1438 (Fed. Cir. 1991)) (emphasis added).

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III. Scher et al. and Schmoock in view of Petry et al.

Claims 33, 34, 45, 50 and 56-58 stand rejected under 35 USC § 103(a) as allegedly being unpatentable over Scher et al. and Schmoock in view of Pety (U.S. Patent No. 3,196,030). However, as Petry fails to cure the deficiencies identified in Section I.A and I.B. above, Applicants respectfully present that this rejection also fails to establish *prima facie* obviousness for claims 33, 34, 45, 50 and 56-58.

IV. Scher et al. and Schmoock in view of Eby et al.

Claims 35-38 stand rejected under 35 USC § 103(a) as allegedly being unpatentable over Scher et al. and Schmoock in view of Eby et al. (U.S. Patent No. 5,961,903). Again, as Eby et al. fails to cure the deficiencies identified in Section I.A and I.B, above, Applicants respectfully present that this rejection also fails to establish *prima facie* obviousness for claims 35-38.

A. Claim 37

Claim 37 recites "wherein a thin top coat is applied on top of the structured wear layer before the glazing stage and that the top coat is partially cured before the glazing." However, as Eby et al. does not teach any glazing stages, either in the cited passage or elsewhere, the combination of Scher et al., Schmoock, and Eby et al. cannot make a *prima facie* case of obviousness for claim 37.

B. Claim 38

Claim 38 recites "wherein the top coat is comprised of acrylic or maleamide lacquer and optionally an additive in the form of hard particles with an average size in the range 50 nm - 10 µm." However, as Eby et al. does not teach a lacquer (see Section I.A, above), the combination of Scher et al., Schmoock, and Eby et al. cannot make a prima facte case of obviousness for claim 38.

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V. Scher et al. and Schoock in view of Nishimura et al.

Claim 31 stands rejected under 35 USC § 103(a) as allegedly being unpatentable over Scher et al. and Schoock in view of Nishimura et al. (U.S. Patent No. 4,216,251). As Nishimura et al. fails to cure the deficiencies identified in Section I.A and I.B, above, Applicants respectfully present that this rejection also fails to establish *prima facie* obviousness for claim 31.

VI. Scher et al., Schmoock and MacQueen et al. in view of Schmid et al. or or James et al. or Greten et al. or Petry in view of Schmid et al.

Claims 42 and 53 stand rejected under 35 USC § 103(a) as allegedly being unpatentable over Scher et al., Schmoock and MacQueen et al. in view of Schmid et al.. Claim 44 stands rejected under 35 USC § 103(a) as allegedly being unpatentable over Scher et al., Schmoock and MacQueen et al. in view of Greten et al. (U.S. Patent No. 5,498,309). Claim 46 and 55 stand rejected under 35 USC § 103 (a) as allegedly being unpatentable over Scher et al., Schmoock and Petry, in further view of Schmid et al. Claim 47-49 stand rejected under 35 USC § 103(a) as allegedly being unpatentable over Scher et al., Schmoock and MacQueen et al. in view of James et al. (U.S. Patent No. 6,354,915). Claim 54 stands rejected under 35 USC § 103(a) as allegedly being unpatentable over Scher et al., Schmoock and MacQueen et al. in view of Schmid et al. As Petry, James et al., Schmid et al. and Greten et al. fail to cure the deficiencies identified above, Applicants respectfully present that this rejection also fails to establish *prima facte* obviousness for claims 42, 44, 47-49, 53 and 54.

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VII. Conclusion

In view of the above, it is respectfully submitted that all objections and rejections are overcome. Thus, a Notice of Allowance is respectfully requested. If any issues remain which may best be resolved through a telephone communication, the Examiner is requested to telephone the undersigned at the local Washington, D.C. telephone number listed below

Respectfully submitted,

TPP/EPR/mat

Attorney Docket No.: TPP 31424

Thomas P. Pavelko

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Attachment:

McGraw-Hill Dictionary of Scientific and Technical Terms (definition of Lacquer)

STEVENS, DAVIS, MILLER & MOSHER, L.L.P.

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Date: MIRCH 16 2006

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ATTACHMENT

Lacalle's constella is lactoglobulin

LACTAM

Equation showing conversion of y-aminobutyon acid to

LACTIC ACID

(a)

Structural formulas of (e) destro form and (b) levo form of lactic acid.

LACTIM

Equation showing tautomaric equilibrium between the instant and lectim forms of justin,

LACTOBACILLEAE



Portomicrograph showing morphology of Lastobacillus brevia, tribe Lastobacillus.

Lecalita's constraintions [AFRANT] The 14 southern constellations identified by N. L. do Lacaille in 1763: Antlia. Calturn. Circinus, Crux. Formax, Horotoglum, Mersa. Mixroscopium, Norma, Octana, Pictor. Recticulum. Sculptor. and Telescopium.

tacces (anothers) Criting (OH), A phenol compound which is found in the sap of languer trees, and which can be isolated in crystalling form.

taceuse [BEDCHEM] Any of a class of plant oxidases which catalyze the oxidation of phonols.

taccets [MOL] Having a lacquered appearance.

Lacellerings (prv 200) A sublimity of scale insacts in the superfamily Coccoldes in which the male lacks compound over, the abdomen is without spiracles in all stages, and the apical abdominal segments of symphs and females do not form a pysidium.

taccolith [GEOL] A body of igneous rock intruding into sedimentary rocks so that the overlying strate have been notably lifted by the force of intrusion.

less (ADP) To punch all the boles in some area of a punch card, such as a card row or card column. [rear] A patterned, openwork fabric made by hand with needles or hooks, or by machinery.

(accorate (ACD) To inflict a wound by tearing.

tenerated [800.] Having a deeply and irregularly incised margin or spex.

beceration [sees] A would made by tearing.

Lecerte [ASTRON] A small northern constellation lying between Cygnus and Andromeda, and adjoining the northern boundary of Pegassa. Also known as Lizard.

Lacertides [VERT ZDO] A family of repriles in the suborder Sauria, including all typical lizards, characterized by movable eyelids, a fixed lower law, bomodons densition, and epidermal scales.

techestis [cino CHIM] C₂₀H₂₆CINO₃. A compound that crymalizes from a solution of ethanel and acasono, and whose melting point is 213°C; used in optithalmology. Also known as chloride bernilare.

tacing [Abo] Extra multiple punching in a card column to simily the end of a specific card run; the term is derived from the lacowork appearance of the card. [Crv Evo] 1, A light-weight metallic piece that is fixed diagonally to two channels or four engle sections, forming a composite strut. 2. A course of brick, stone, or tiles in a wall of rubbio to give strength. 3. A course of unick, stone, or tiles in a wall of rubbio to give strength. 3. A course of unick, stone, or tiles in a wall of rubbio to give strength. 3. A course of unick, stone, or tiles in a wall of rubbio to give strength. 3. A course of unicks forming a bond between two or more arch rings. 4. Distribution steel in a slab of reinforced concrete. 5. A light timber fastened to neirs of struss or wallings in the timbering of excavations (including mines), healthin [noted to form irregular lobes, which may be pointed learness. See litmus.

lacturer [MARTHI A material which contains a substantial quantity of a cellulose derivative, most commonly mitrocellulose but sometimes a cellulose exter, such as cellulose accesses or cellulose butyram, or a cellulose other such as ethyl cellulose used to give a glossy finish, especially on brass and other bright metals.

tecture distrest [MATER] An organic liquid with no solvent power added to lacquer formulations to reduce viscosity and to adjust flow or other properties.

locquer tree Ser varnish tree.

incremal [AMAT] Pertaining to lears, tear chects, or tear-secreting organis.

tacrimal apparatus (ARAT) The functional and structural mechanisms for secreting and draining tears: includes the tacrimal stand, take, puncts, caralleuli, sac, and assolucrimal

terrings bone [ANAT] A small bone located in the ensuring medial wall of the orbit, articulating with the frontal, exhworld matrilla, and inferior natal concha.

tecrimal canal. Ser necolaritimal canal.

lecrimal consiteuts. [Anart] A small rube lined with straufied squamous epithelium which runs vertically a short distance from the punchum of each cyclid and then turns horizontally in the herical part of the lid margin to the harrinal sac. Also known as factional duct, tecrimal duct. Ser learning canaliculus. terrims giand [ANAT] A compound subulcelventar stand that sources sears. Also known as tear stand, terrims see: [ANAT] The dilation at the unser and at

izerimal sace [Loka7] The dilation at the upper end of the nasolacrimal duct within the medial carethus of the cye. Also known as decryocyst.

incrimation (PMYSIO) 1. Normal secretion of tears 2 Propsive secretion of tears, as in weeping.

tacrimeter Ser tear gas.

lacretable [MINERAL] A pale yellowish-green mineral conposed of basic phosphate of aluminum, calcium, management and sodium (often with fluorine), occurring at crystals LACT See lease automatic custody transfer.

isstathumin (stocated A simple protein contained in milk which resembles serum albumin and is of high nurritional quality.

lectam [ORG CMD4] An internal (cyclic) amide formed by heating garants (y) and delta (5) amino acids: thus yearninobotyric acid readily forms y-butyrolactam lactam (pyrrolidose); many lactama have physiological activity.

decines [alocatel] An enzyme that catalyzes the hydrolysis of lactors to dexures and galactors.

tacture deficiency syndrome [seed] Diarrhea induced by ingestion of a lucious-containing food such as milk, according to a consenited or acquired deficiency of lucious.

iscusts (one CHEM) A salt or enter of facule acid in which the acidic hydrogen of the curbourl group has been repland by a metal or an organic radical. Privatol To sceres miltisatists delaydrogenesses (successed A me-containing entering which catalyzes the oxidation of several a hydrogenesics exidate corresponding a beto acids.

tactation [parysio] Secretion of milk by the momenty

tactest [ANAT] One of the intestinal lymphatics that alast chyle. [Perceio] Perceining to or resembling milk. [actoscost [BEOL] Having a milky appearance. [Perceio

Secreting milk or a milkilke subsumes.

tactic acid [successed C.H.O. A hygroscopic a-hydrograacid occurring in three optically isomeric formes a form, is blood and muscle tissue as a product of glucose and glucose metabolism; p form, obtained by fermentation of successed on form, a racemic mixture present in foods prepared by bacterial fermentation, and also made synthetically. Also known as 2-hydroxypropanois acid: a-hydroxypropanois acid:

testic dehydrogenation (BIDCHEM) An coryme that establish the dehydrogenation of Lelectic solid to pyruvic acid. Abbreviated LDH.

tactic dehydrogeness wines (viscoi.) A virus of the rubi

testide (one cross) A cyclic, intermolecular, double estaformed from a-hydroxy adds; most factides are relatively by melting solids and are easily hydrolyzed by base to form the of the parent acid, such as sodium lactate.

lactim [DRG CRUM] A unitomeric end form of a latten will which it forms an equilibrium whenever the latten already carries a free hydrogen.

lectin Ser lectore.

tectivorous (200) Feeding on milk.

Lectobacifiacuse (secucito) A family of sugar-formation becteria in the order Bubecteriales including both spherical and rod-chaped forms.

Lactobeciliese [aucrosso] A tribe of rod-shaped because the family Lactobecillacese.

Locabastikas [pacrosso] The lactic sold bacteria, a grant nonmotile gram-positive bacteria in the family Lacebraid case; they produce tactic acid from certain conductorial isolatoria (successal An iron-binding promis family

milk saliva, users and intestinal and respiratory securing that interferes with the iron metabolism of bases conjunction with antibodies, it plays an important religious to cartain infections discusses.

tectafavin Ser ribofizvin.

lactogento hormone Ser protectio.

tacingtobatin [Stockers] A crystalline protein fraction milk, which is soluble in half-enturated ammonium solution and insoluble in pure warrs.

McGraw-Hill Dictionary of Scientific and Technical Terms

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In addition, material has been drawn from the following references: R. E. Huschke, Glossary of Meteorology, American Meteorological Society, 1959; U.S. Air Force Glassery of Standardized Terms, AF Manual 11-1, vol. 1, 1972; Communications-Electronics Terminology, AF Manual 11-1, vol. 3, 1970; W. H. Allen, ed., Dictionary of Technical Terms for Aerospace Use, 1st ed., National Aeronautics and Space Administration, 1965; J. M. Gilliland, Solar-Terrestrial Physics: A Glossary of Terms and Abbreviations, Royal Aircraft Establishment Technical Report 67158, 1967; Glossary of Air Traffic Control Terms, Federal Aviation Agency; A Glossary of Range Terminology, White Sands Missile Range, New Mexico, National Bureau of Standards, AD 467-424; A DOD Glossory of Mapping, Charting and Geodetic Terms, 1st ed., Department of Defense, 1967; P. W. Thrush, comp. and ed., A Dictionary of Mining, Mineral, and Related Terms, Bureau of Mines, 1968; Nuclear Terms: A Glossary, 2d ed., Atomic Energy Commission; F. Casey, ed., Compilation of Terms in Information Sciences Technology, Federal Council for Science and Technology, 1970; Glossary of Stinfo Terminology, Office of Aerospace Research, U.S. Air Force, 1963; Naval Dictionary of Electronic, Technical, and Imperative Terms, Bureau of Naval Personnel, 1962; ADP Glossary, Department of the Navy, NAVSO P-3097.

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